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Comparison of the influences of nodal dynamics on network synchronized regions

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Highlights

- The influence of nodal dynamics on network synchronization is investigated.
- A new piecewise linear unified chaotic (PLUC) system is developed.
- Comparison of the impact of PLUC and UC oscillators on synchronized regions is given.
- The PLUC makes the network more difficult to synchronize than the UC does.
- The difference of their synchronizability is closely related with nodal dynamical properties.

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